

Aiello 1999-0053

IN THE CLAIMS:

**Claims 1 – 35 (delete).**

**36. (Currently Amended) The method of claim 35 further of: A method of employing a user's broadband telephony interface (BTI), executed in said BTI in communication with a network, comprising the steps of:**

sending a request to a provisioning server;

receiving a key of said provisioning server and information that authenticates said provisioning server;

generating a random key K and its complement, a random session key SK and its complement, and a random audio channel key AK and its complement, where a complement of a key J is a key that decrypts messages message encrypted with said key J;

sending to said provisioning server information that includes said complement of said K encrypted with said key of said provisioning server, and a tuple encrypted with said K, which tuple includes said complement of said SK, and said complement of said AK;

receiving an acknowledgement from said provisioning server;

establishing a voice connection between said user and said network;

receiving from said provisioning server a request over said voice connection, encrypted with said complement of said key AK

relaying said request to said user;

receiving responsive information from said user;

forwarding said responsive information to said provisioning server, encrypted with said key AK;

generating a public/private key pair; and

sending the generated public key to said provisioning server, encrypted with said key SK.

**37. (Previously Presented) The method of claim 36 further comprising the step of receiving an acknowledgement message from said provisioning server, in response to**

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said sending of the generated public key, which acknowledgement message is encrypted with said complement of said key SK.

**Claims 38 – 39 (delete).**